

## **MADERA COUNTY**

### **PUBLIC HEALTH LABORATORY TECHNICIAN**

#### **DEFINITION**

Under general supervision, to assist with and perform a variety of standard Public Health Laboratory tests and analyses; to set up testing procedures, record data, and analyze results; to receive training in laboratory testing and analyses; and to do related work as required.

#### **SUPERVISION EXERCISED**

Exercises no supervision.

#### **EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES**

Follows standardized procedures in conducting routine chemical, biological, and physical testing and analyses in a Public Health Laboratory; performs water bacteriology examinations; processes incoming specimens; performs quality control on autoclaves, media, and reagents; prepares specimens for micro, staining, and cross streaking; records temperature readings on refrigerators, water baths, and incubators; prepares media solutions and reagents; maintains the laboratory and equipment in a clean and orderly condition; records test results and provides basic information on test results and interpretations; assists with the inventory and purchasing of laboratory supplies and equipment; receives training in laboratory testing and analytical procedures; provides some direction for student assistants working in the laboratory.

#### **OTHER JOB RELATED DUTIES**

Processes incoming specimens by numbering and time date stamping; performs data entry; prepares and transports specimens; performs related duties and responsibilities as assigned.

#### **JOB RELATED AND ESSENTIAL QUALIFICATIONS**

##### **Knowledge of:**

Basic principles of chemistry, biology, and related sciences.  
Basic principles and methods used in chemical, biological, and physical testing and analysis.  
General principles and techniques of statistical sampling and analysis.  
Care and maintenance of laboratory equipment.  
Laboratory and work safety methods and procedures.

##### **Skill to:**

Operate modern office equipment including computer equipment.  
Operate laboratory equipment and instruments.

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**Ability to:**

Learn a variety of laboratory methods and procedures.

Learn the chemicals and equipment used in a public health laboratory.

Perform basic, standardized laboratory tests involving the chemical, biological, and physical analysis of specimens.

Analyze and interpret testing results.

Perform routine maintenance on laboratory facilities and equipment.

Maintain and update records and reports.

Communicate clearly and concisely, both orally and in writing.

Establish, maintain, and foster positive and harmonious working relationships with those contacted in the course of work.

**Experience and Training Guidelines:**

*Any combination equivalent to experience and training that would provide the required knowledge, skills, and abilities would be qualifying. A typical way to obtain the knowledge, skills, and abilities would be:*

**Experience:**

One year of responsible work experience in laboratory testing and analytical procedures.

**Training:**

Equivalent to the completion of the twelfth grade supplemented by college level course work in chemistry, bacteriology, or a related field.

**Special Requirements:**

*Essential duties require the following physical skills and work environment:*

Ability to sit, stand, walk, kneel, crouch, stoop, squat, and lift 50 lbs.; exposure to chemicals, explosive materials, and biological hazards.

**Effective Date:** May, 1995